

***Proceedings of the XII DAE Symposium on High Energy Physics held at the  
Department of Physics, Gauhati University, Guwahati-781 014, India, during  
December 26, 1996 – January 1, 1997 — Part II***

## **Foreword**

The Twelfth High Energy Physics Symposium was held in the Department of Physics, Gauhati University during December 26, 1996 to January 1, 1997 under the auspices of the Department of Atomic Energy, Government of India.

The symposium was inaugurated by Professor K M Pathak, Vice Chancellor, Tezpur University. The inaugural function was presided over by Professor H L Duorah, Vice Chancellor, Gauhati University. Professor J C Pati of University of Maryland delivered the keynote address as the distinguished guest of honour. Earlier, Professor S Jois, Dean, Faculty of Sciences, Gauhati University welcomed the delegates. The inaugural function ended with votes of thanks by Professor S A S Ahmed, the secretary of the symposium.

The history of the DAE symposia now spans more than two decades. The first DAE symposium of High Energy Physics was held in the year 1972 in Mumbai. Since then, this symposium has become a major biennial event of high energy physics community of India with venues shifting to different centers of the country : Santiniketan (1974), Bhubaneswar (1976), Jaipur (1978), Cochin (1980), Mysore (1982), Jammu (1984), Calcutta (1986), Chennai (1988), Mumbai (1992), Santiniketan (1994) and now Guwahati (1996).

The first request to hold the DAE Symposium on High Energy Physics in Gauhati University came to me from late Professor P K Malhotra in 1990. But due to time constraints and lack of infrastructural facilities, we refrained from such a venture at that time. Only in 1996, we took courage to hold the XIIth symposium, even though, our infrastructural facilities and financial capability have not improved in any significant way.

Total 150 delegates from different parts of India and abroad participated in the symposium. It was a wonderful experience for the teachers and student community of the university to be with such a distinguished international gathering of scientists.

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The symposium consisted of 21 plenary talks and 22 invited talks of 25 minutes duration in the parallel sessions. As has been customary, a booklet containing the abstracts of the contributed papers (total 128) was published and distributed to each participant during the registration. Of the total 45 invited talks including the key note address and conference summaries presented at the symposium, only 27 talks could be included in this volume as the manuscripts of others were not received in spite of our best efforts.

A special feature of the present symposium is the introduction of the convenerships in the contributory parallel sessions. The abstracts of the contributed papers were first addressed to the respective conveners of the parallel sessions for their erudite comments and approvals.

On the very first evening of the symposium, it was decided in a meeting of the participants that the thirteenth symposium in High Energy Physics will be held in Punjab University, Chandigarh in 1998.

Halfway through the symposium on a Sunday, a one day break was arranged during which, most of the participants enjoyed a cruise on the mighty Brahmaputra. Scientific deliberations in the symposium got accompanied by the artistic expression with an evening devoted to a cultural programme of classical and folk music and dances.

In this symposium, another evening was devoted to condole the sudden passing away of Professor Abdus Salam, the Nobel Prize winner of Physics (1979), the founder Director of International Center for Theoretical Physics, Trieste, Italy and an outstanding leader of development of science in the third world. The symposium also felicitated Professor G Rajasekaran of Institute of Mathematical Sciences, Chennai for his three decades of dedicated contributions to High Energy Physics in India and Professor G C Deka of Guwahati for his leadership in experimental High Energy Physics in North East India.

The symposium was organised with major funding from the Department of Atomic Energy, Government of India and we are thankful to Dr Z Chidambaram, Chairman, Atomic Energy Commission and Professor S S Jha, Chairman, BRNS for the same. ASTEC and DSTE, Government of Assam need special mention for their generous grant for the symposium. We are also thankful to DST, New Delhi, IUCAA, Pune, TIFR, Mumbai, INSA, New Delhi, CSIR, New Delhi, IACS, Calcutta, Tezpur University, Tezpur, Manipur University, Imphal, Nagaland University, Kohima and Dibrugarh University, Dibrugarh for financial support for the symposium, besides the host Gauhati University. It is also a pleasure to acknowledge support from Oil India, Duliajan, IOC,

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We would like to record our appreciation for the untiring efforts of the members of the local organising committee and the efforts of our student volunteers and research scholars, which made the symposium a great success. We thank Gauhati University authorities for their all round cooperation. We gratefully acknowledge the efforts of the members of the Gauhati University Computer Center for ensuring smooth e-mail service during the symposium. We are specially thankful to Dr. N N Singh and Dr. J K Sarma for providing assistance towards preparation of the booklet of the abstracts and Ms. Ranjita Deka for her invaluable help in publication of the souvenir.

We are grateful to the editorial board of Indian Journal of Physics, particularly to Professor S P Sengupta, Editor in Chief and Dr. (Mrs.) K K Datta, Assistant Secretary, for agreeing to publish the Proceedings as a supplementary issue.

D K CHOUDHURY  
*Convener*